ABSTRACT

An objective of the present invention is to provide a production process capable of improving an operation efficiency of a diene-based rubber-inorganic compound composite during production by forming a composite having high dispersibility of an inorganic compound in a diene-based rubber and having relatively large crumb diameter upon coagulation. The present invention provides a process for producing a composite comprising a diene-based rubber and an inorganic compound represented by the general formula: $wM \cdot xSiO_y \cdot zH_2O$ (where M is at least one metal element selected from the group consisting of Al, Mg, Ti and Ca, metal oxide thereof or metal hydroxide thereof, and w, x, y, and z are an integer of from 1 to 5, an integer of from 0 to 10, an integer of from 2 to 5, and an integer of from 0 to 10, respectively.), and comprises a step of mixing the inorganic compound and/or a material capable of forming the inorganic compound, an anionic compound and a dispersion liquid of the diene-based rubber.